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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,604	10/23/2001	Kevin J. Dowling	C1104.70087US00	3464
23628	7590	10/18/2007	EXAMINER	
WOLF GREENFIELD & SACKS, P.C.			A, MINH D	
600 ATLANTIC AVENUE			ART UNIT	PAPER NUMBER
BOSTON, MA 02210-2206			2821	
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			10/18/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/045,604

Applicant(s)

DOWLING ET AL.

Examiner

Minh D A

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 June 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) See Continuation Sheet is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 71-72, 74-79, 81-92, 100-125, 166-173, 335-341 is/are allowed.
- 6) ☒ Claim(s) 61, 68, 237, 244, 246, 323 and 331-334 is/are rejected.
- 7) ☒ Claim(s) 324-330 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

Continuation of Disposition of Claims: Claims pending in the application are 1-37,53-56,61-66,68,69,71-92,95-129,143-152,154-157,166-213,229-232,237-242,244-246 and 248-309.

Continuation of Disposition of Claims: Claims rejected are 1-37,53-56,61-66,68,69,71-92,95-129,143-152,154-157,166-213,229-232,237-242,244-246 and 248-309.

**DETAILED ACTION**

1. Applicant's communication filed on 6/30/07 has been carefully considered by the examiner. The arguments advanced therein are persuasive with respect to the rejection of record, and those rejection are accordingly withdrawn. In view of a further consideration, however, a new rejection is set forth below. This action is not made final.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 61, 68, 237, 244, 246 and 323, 331-334 are rejected under 35 U.S.C. 102(b) as being anticipated by Eckel et al (US 5, 946,209).

Regarding claim 61, Eckel discloses, in figures 1-5, a controller system (10) for providing a motion sensor and microprocessor (70) corresponding to computer-based representation of a solid model in a virtual environment (see area or room in figures 1 and 2), a motion sensor for representation including a capability for modeling an effect of light illuminating the solid model, and providing a controller for a light system (lighting system (10)), the controller (processor (70)) corresponding to adapted to control the light system to illuminate the solid model in a real environment (area or room) in correspondence with the modeled effect of the light in the virtual environment, and providing the light system for illuminating the solid model, wherein the light system includes a network of LEDs (86). See col.5, lines 12-67 to col.14, lines 1-18.

Regarding claim 68, Eckel discloses, a computer (see for test equipment interface, fail codes, process control and testing can be controller from the microprocessor (70) or an external computer, as shown col.22, lines 17-35) corresponding to a display screen for displaying content of a computer application, providing a lighting system (10) for illuminating an environment of a user of the computer application with multi-color illumination ( microprocessor (70) can drive a different color and user , providing a surface for receiving the multi-color illumination from the lighting system(10), from which the user perceives at least some of the multi-color illumination in the environment, and coordinating the multi-color illumination of the surface with execution of the content of the computer application and providing an element on the surface that interacts with light from the lighting system to provide an effect. See col.5, lines 12-67 to col.14, lines 1-18.

Regarding claim 237, Eckel discloses light system (10) comprising a microprocessor (70) and a motion sensor in room or area as shown figures 1-2 correspond to (computer-based representation of a solid model in a virtual environment), the lamp system (10) include a capability for modeling an effect of a light system on the solid model (motion sensor has a LEDS), a controller (microprocessor (70) for a light system, the controller (70) adapted to control the light system to illuminate a solid model( motion sensor has a plurality of LEDS) in a real environment in correspondence with the modeled effect of the light in the virtual environment, and a light system(10) for illuminating the solid model(motion sensor has LEDS), wherein the light system includes a network of LEDs. See col.5, lines 12-67 to col.14, lines 1-18.

Regarding claims 244 and 246, Eckel discloses light system (10) for illumination of an environment, comprising: a display screen for displaying content of a computer application (computer), a lighting system for illuminating the an environment of a user of the computer application with multi-color illumination, a surface (room) for receiving the multi-color illumination from the lighting system, from which the user (user can switch a different color) perceives at least some the multi-color illumination in the environment, an element on the surface that interacts with light from the lighting system to provide an effect and a controller(microprocesor(70)) for coordinating the multi-color illumination of the surface with execution of the content of the computer application. See col.5, lines 12-67 to col.14, lines 1-18.

Regarding claims 323, 331-332 and 334, Eckel discloses light system (10) the screen display, said method comprising: sampling a plurality of regions of the screen display to acquire color indicators for the plurality of regions; and changing the color of one or more regions of the housing based on the color indicators of one or more sampled regions of the screen display in order to extend the feel of the screen display to the housing that surrounds the screen display. See col.5, lines 12-67 to col.14, lines 1-18.

***Allowable Subject Matter***

4. Claims 324-330 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 71-72, 74-79, 81-92, 95-125, 166-173, 237, 244, 246, 323, 341 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Prior art does not teach that, a method of controlling illumination in an environment of a visual display screen, comprising: providing an illumination source for producing illumination comprising a plurality of colors, wherein the illumination source comprises an array of LEDs; obtaining a signal related to content displayed on the display screen; providing a control system for controlling the illumination source, wherein the control system delivers a pulse-width modulated signal; and controlling the illumination source to illuminate the environment in coordination with the content displayed on the display screen recited in independent claim 71.

Prior art does not teach that, a method of providing illumination in coordination with display of content on a display screen, comprising displaying computer game content on a the display screen; providing an illumination source for illuminating an environment that is related to the display screen, the illumination source adapted to generate a plurality of colors, wherein the illumination source comprises a plurality of light emitting diodes, wherein the light emitting diodes are disposed in a network configuration, and wherein the light emitting diodes are controlled by pulse width modulation; and coordinating the illumination source to illuminate the environment in relationship to the computer game content on the display screen, in response to a signal obtained from a computer game recited independent claim 166.

The remaining dependent claims 72, 74-79, 81-92, 100-125, 167-173, 338-341 are allowable for at least above.

***Citation of relevant prior art***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Yoshida et al (U.S. Patent No. 6,012,980) discloses a coordinate detecting device and game device.

Prior art Bae (U.S. Patent No. 4,395,045) discloses television precision target shooting apparatus and method..

***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 AM-2:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Owens Douglas W can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For



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more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner

Minh A

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10/14/07

  
SHIH-CHAO CHEN  
PRIMARY EXAMINER